

Joint Accreditation PARS Activity XML File Specification

Contents

VERSION HISTORY	3
INTRODUCTION	5
ACTIVITY XML CHANGES FOR V3 JA-PARS	5
ACTIVITY XML CHANGES FOR V4 JA-PARS	7
XML FILE SPECIFICATION DETAILS	7
ACCME ACTIVITIES	8
MEDICALEDUCATIONMETRICS	8
ACTIVITYDESCRIPTION	9
LOM (LEARNING OBJECT MODEL)	10
HEALTHCAREEDUCATION	13
PARTICIPATIONMETRICS	16
XTENSIBLEINFO	17
APPENDICES	24
A: SAVING AND CLOSING ACTIVITIES	24
B: JA-PARS ACTIVITY TYPES & ACTIVITY SUB-CATEGORIES	26
C: LIST OF COUNTRY CODES	27
D: STATE ABBREVIATIONS	30
E: REGISTERING AN ACTIVITY FOR MAINTENANCE OF CERTIFICATION (MOC)/CONTINUING CERTIFICATION (CC)	31
F: MOC SPECIALTIES BY BOARD	33
G: CREDIT TYPES FOR MOC REGISTRATION	37

Joint Accreditation PARS Activity XML File Specification

H: COMMERCIAL SUPPORTER SOURCE LIST	39
I: PHARMACY RECERTIFICATION REQUIREMENTS BY AUDIENCE.....	44
J: PHARMACY STATE REGULATORY CONTENT AREAS.....	45
K: STATE CONTENT TAGGING CONTENT AREAS	46
L: LIST OF ERROR CODES	47

CONFIDENTIAL

Joint Accreditation PARS Activity XML File Specification

Version History

Version	Date	
3.3	02/10/2025	Corrected spelling of “biliary” for ABPath Practice Area.
3.3	01/08/2025	Updated element detail for “HasPharmacyRecertifications”, “PharmacyRequirement”, “HasPharmacyContentTags”, “HasStateContentTags”, “PharmacyContentTopic”, and “StateContentTopic”
3.2	12/04/2024	Updated page 23 reference to “HasStateContentTags” element in XtensibleInfo. It correctly represents the element and its properties now.
3.1	09/10/2024	Added new Activity V4 schema. This includes: <ul style="list-style-type: none"> • valid values for pharmacy recertification by audience • valid values for pharmacy state regulatory requirements • valid values for AMA PRA Category 1 state content tagging (Opioids) Fixed links to accme.org.
3.0	01/25/2024	ABPATH: changing the language for the “Part IV” activities from “Improvement in Medical Practice” IMP to “Improvement in Health and Healthcare” IHCC
2.9	11/15/2023	Added references for American Board of Thoracic Surgery
2.8	07/11/2023	Added references for American Board of Orthopaedic Surgery (ABOS), including new error message specific to ABOS.
2.7	04/10/2023	Added state abbreviations for activity location.
2.6	03/03/2023	Removed references to the American Board of Ophthalmology, who withdrew from the CME for MOC Collaboration.
2.5	01/31/2023	Updated link to ABA MOCA Content Outline, excel version.

Joint Accreditation PARS Activity XML File Specification

Version	Date	
2.4	11/30/2022	Updated pharmacy topic designator options; added Bariatric Surgery as a practice area for ABS; corrected ABA credit type language; clarified outcome measures values.
2.3	11/08/2022	Fixed incorrect Commendation Criteria options.
2.2	10/11/2022	Updated information regarding the certificate program activity format, PharmacySequenceNumber
2.1	02/10/2022	Updated information regarding the ReportingStartDate and ReportingEndDate elements and instructions for reporting of pharmacist and pharmacy technician learner counts.
2.1	mm/dd2024	Updated document to detail new Activity V4 schema, valid values for pharmacy recertification by audience, valid values for pharmacy state regulatory requirements, valid values for AMA PRA Category 1 state content tagging (Opioids)
2.0	09/02/2021	Updated document to detail the new JA-PARS v3 XML record format.
1.3	01/25/2021	Added values for reporting registered dietitians and dietetic technicians
1.2	09/10/2020	Added values for reporting dentists and allied dental staff
1.1	01/09/2020	Added element for indicating Merit-Based Incentive Payment Systems (MIPS) activities

Joint Accreditation PARS Activity XML File Specification

Introduction

XML stands for eXtensible Markup Language. It is a computer language designed to structure and transmit data over the Internet. The Joint Accreditation Program and Activity Reporting System (JA-PARS) includes a data upload tool that accepts XML files formatted to conform with the Medical Education Metrics (MEMS) XML standard created by the MedBiquitous Consortium. This tool enables JA-PARS to collect information in a manner that is consistent with the data communications standards being adopted by medical education content providers. Accredited providers whose CME activity tracking systems can export data to XML files may wish to explore this option for transmitting records to JA-PARS.

These instructions are intended for an audience that is familiar with XML, specifically, the information technology staff who support CME departments. It is beyond the scope of this document to describe how to create or edit XML files in general, or how to export data from specific CME tracking systems.

The batch upload function in JA-PARS offers providers the ability to add or update multiple activity records from a single file containing data that has been exported from another tracking system. To successfully upload data, it is critical that providers properly “map” the necessary data from their system into the file format described in this document. Technical understanding of creating XML-formatted files is assumed.

The activity data web service for JA-PARS uses the same XML record format as the batch upload detailed in this document. Unlike batch upload, only a single activity record can be submitted in each call to the web service. Submitting multiple activity records will require multiple calls to the web service.

The JA-PARS XML Activity File Specification is an adaptation of the MEMS standard that has been created by the MedBiquitous Consortium. MEMS in turn incorporates another XML specification, the Healthcare Learning Object Model (Healthcare LOM), which is also published by MedBiquitous. Further information on these specifications can be found at <https://www.medbiq.org/standards>, and it is recommended that implementers review this material in detail.

The JA-PARS XML activity record format is also a descendant of the Accreditation Council for Continuing Medical Education (ACCME) Program and Activity Reporting System (PARS) record format. Several fields in the specification have labels that reflect this derivation. The original names of these fields are retained in the JA-PARS specification to reduce the amount of re-work required of users who have previously mapped their data into the PARS record format.

Below is a discussion of several key concepts about the way JA-PARS manages activity records. Understanding these concepts will be helpful throughout your work with the system.

Activity XML Changes for v3 JA-PARS

Adding and Updating activity records: In a significant change from previous versions of the API, the v3 JA-PARS activity XML record format includes an element for specifying the activity record transaction. Every record must include “Add”, “Update”, or “Delete”. JA-PARS will reject records with transactions that conflict with data in the system such as an “Add” for an activity that already exists, or an “Update” or “Delete” for an activity that cannot be matched given the information included in the record.

Activity record status: Another significant change from previous versions of JA-PARS is the use of multiple activity status values. These statuses are briefly described below. This document will detail the data required for an activity record to have the “Active” and subsequent statuses. Note that the “Closed” status is intended to indicate that the activity has

Joint Accreditation PARS Activity XML File Specification

been completed and that all information in JA-PARS for it is final Once an activity record is set to “Closed”, JA-PARS will not accept further record transactions for that activity. The “Closed” status requires an explicit indication to be sent to JA-PARS.

DRAFT: A draft activity is generally an activity that is not yet available to learners, or that does not have enough information provided in JA-PARS to be considered active.

ACTIVE: If the end date of the activity is not in the past, and if all required fields have been entered, the activity will have Active status.

READY TO CLOSE: Once the end date of an activity is in the past, and if all fields have been entered, the activity status changes automatically to Ready to Close status. At this point, you can enter your final total learner counts and provide final details around commercial support and close your activity.

CLOSED: Once all required fields are complete and you have updated your total learner counts, you will actively change the status of your activities to Closed. The system does not do this, since it doesn't know when your learner counts, and other details are final. You will be able to set activities to closed status individually, in bulk manually by selecting the applicable activities or via any of the batch or web services methods.

Activity description: This field is a required field in the v3 PARS activity XML.

Credit claim date: This is a new, required field. The credit claim date must be equal to or greater than the activity end date.

Reporting Start Date: The year portion of this date value should be the same as the year of the activity start date.

Reporting End Date: The year portion of this date value should be the same as the year of the activity end date.

Reporting Year: This field has been deprecated and is no longer used to determine reporting year.

Professions: Professions are identified via the Credits attribute. Use this container to indicate the profession and the credits provided for this activity for that profession. This is valid for all JA professions. Additional details are contained in the attribute details of this documentation.

Target Audience: This is now limited for use with the pharmacy and pharmacy technician profession. Additional details are contained in the attribute details of this documentation.

Program Summary: The ACCME requires that providers complete an annual Program Summary, which summarizes programmatic income for the year. The Program Summary cannot be completed using batch upload or API functionality and must be manually completed in JA-PARS.

Maintenance of Certification: Accredited CME providers have the option to register activities for those certifying boards participating in CME in support of MOC using the JA-PARS XML batch upload process. Activities being registered for MOC must fulfill the requirements for the given board's MOC program.

Requirements for CME in support of MOC: <https://accme.org/data-reporting/maintenance-of-certification/>

Technical resources for submitting data: <https://accme.org/resource/submit-data-via-batch-upload-or-web-services/>

Joint Accreditation PARS Activity XML File Specification

Activity XML Changes for v4 JA-PARS

Added 3 new elements:

1. `HasPharmacyRecertifications` Container element to indicate whether this activity is associated with a pharmacy certificate program.
2. `HasPharmacyContentTags` Container element to indicate whether this activity is associated with state-specific content topics.
3. `HasStateContentTags` Container element for data required for tagging activities offering AMA PRA Category 1 credit.

XML File Specification Details

This document is a guide for those who wish to upload activities to JA-PARS using XML-formatted data. This document explains our system's usage and customization of the **Medbiquitous MEMS** and **Healthcare LOM** standards and specific business rules and requirements.

Some key points:

1. Changes to the format of the Medbiquitous [MEMS](#) standard are limited to 1) the addition of a new super root element called ACCMEActivities, 2) the inclusion of customizations in the [XtensibleInfo](#) element, and 3) the uniqueElementName attribute is necessary for healthcaremetadata.
2. Any rules specified in the **Business Rules** column will be validated by JA-PARS during the XML file upload process. These rules will not be enforced using the Medbiquitous XSD templates.
3. This specification only includes the data elements that will be captured and uploaded into JA-PARS. For complete documentation on all data elements that are supported by the Medbiquitous standard, please refer to the Medbiquitous website <https://www.medbiq.org/standards>
4. Any data elements present in the XML file that are not used by JA-PARS must still conform to the structure and rules specified in the Medbiquitous XSD template. However, these elements will not be loaded into JA-PARS.
5. For Boolean types, only lowercase "true" and "false" are accepted as validly formatted.

Joint Accreditation PARS Activity XML File Specification

ACCME Activities

ACCMEActivities is a new super root element for the MedicalEducationMetrics element. This super root element was created to allow more than 1 MedicalEducationMetrics element to be contained within a single XML file.

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration	Business Rules
ACCMEActivities	Super root element that contains 1 or more instances of MedicalEducationMetrics.	1	1	complex	-	-
MedicalEducationMetrics	Medbiquitous-defined container element for each activity. More than one may be present within the ACCMEActivities container. Refer to medicalEducationMetrics for sub-elements within this container.	1	Unbounded	MedicalEducationMetricstype	-	-

MedicalEducationMetrics

The XSD template for this element is unchanged from the Medbiquitous specification. Any special JA-PARS data rules will be enforced by the file upload process, not via the XSD template.

Element Name	Description	Business Rules
MedicalEducationMetrics	Container element for each activity. More than one may be included within the ACCMEMedicalEducationMetrics container.	Multiple MedicalEducationMetrics elements can be included only in batch files. Records submitted using the web service are limited to a single MedicalEducationMetrics element.
ReportDescription	Container element	-
ReportingStartDate	First day of the reporting period for the metrics described for the activity. This is expected to be January 1st of the activity reporting year.	- This value should be aligned with the activity start date - minimally the year portion of the value should coincide with the year of the activity start date. -

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Business Rules
ReportingEndDate	Last day of the reporting period for the metrics described for the activity. This is expected to be December 31 st of the activity reporting year.	- This value should be aligned with the activity end date - minimally the year portion of the value should coincide with the year of the activity end date. -
ActivityDescription	Container element. Refer to ActivityDescription for sub-elements within this container	-
Lom	Container element. Refer to lom for sub-elements within this container.	-
healthcareMetadata	Container element Healthcare Learning Object Metadata Standard.	-
healthcareEducation	Container element. Refer to healthcareEducation for sub-elements within this container.	-
ParticipationMetrics	Container element. Refer to participationMetrics for sub-elements within this container.	-
XtensibleInfo	Container element that contains custom data elements. Refer to XtensibleInfo for sub-elements within this container.	-

ActivityDescription

The XSD template for this element is unchanged from the Medbiquitous specification. Any special JA-PARS data rules will be enforced by the file upload process, not via the XSD template.

Element Name	Description	Business Rules
ActivityDescription	Container element	-
Lom	Container element. Refer to lom for sub-elements within this container	-

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Business Rules
commercialSupportAmount	<p>Indicates the amount of commercial support received from a single source. This amount must be a whole number (no decimal values allowed).</p> <p>This sub-element has the following attributes:</p> <ol style="list-style-type: none"> <i>currency</i> – Currency of the amount indicated. <i>supportSource</i>- Organization that is the source of commercial support. 	<ul style="list-style-type: none"> - JA-PARS is interested in commercial support amounts in USD currency only. All other income specified in non-USD currencies will be ignored. - Include a separate instance of this element for each source of monetary commercial support. - JA-PARS expects a USD currency amount ≥ 0. - See Appendix H for a list of commercial support source names.

Lom (Learning Object Model)

The XSD template has not been modified for this element. Any special JA-PARS data rules will be enforced by the file upload process, not via the XSD template.

Element Name	Description	Business Rules
Lom	Container element. This element is from the IEEE Learning Object Model (LOM) standard.	-
healthcareMetadata	Container element Healthcare Learning Object Metadata Standard.	-
general	Container element.	-
identifier	Container element.	<p>JA-PARS requires at least 2 <i>identifier</i> elements per activity.</p> <ul style="list-style-type: none"> - "Provider Activity ID" must be used when adding a new activity record. Provider Activity ID should be an internal identifier that your system assigns to uniquely identify an activity. Either "Provider Activity ID" or "ACCME Activity ID" can be used when updating an existing activity record. - "URL" is required for an activity to have the status of "active". - "ACCME Activity ID" is assigned by JA-PARS. It can be included for updating or deleting an existing activity record
catalog	Type of unique identifier.	-

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Business Rules
entry	Unique identifier for the activity	<ul style="list-style-type: none"> - If catalog = "ACCME Activity ID", it is assumed that <i>entry</i> is unique in the entire system. - If catalog = "Provider Activity ID", it is assumed that <i>entry</i> is unique within the provider organization. - If catalog = "URL", the entry should be the full web address for a page with information about the CME activity, or the web page for the accredited CME provider or its parent organization, if the activity does not have an individual URL. The URL value does not need to be unique for each activity record.
title	Name of the learning activity.	-
description	Description of the content of the activity	Maximum characters allowed is 2500
keyword	Element for collecting the MOCA Content Outline data. For the list of ABA MOCA Content Outline entries, please visit https://accme.org/resource/aba-moca-excel-content-outline-0/	<p>This element and corresponding sub-elements are only used when registering an activity for ABA MOCA.</p> <ul style="list-style-type: none"> - Either one or two Content Outline entries are required for activities registered for MOCA. Each Content Outline selection requires three separate keyword elements in the XML record, one each with the id values "Level 3 ID", "Tag ID", and "Free Text". All three keyword elements must appear for each Content Outline entry.
id	Attribute used to designate the portion of the Content Outline entry included in this keyword.	<ul style="list-style-type: none"> - "Level 3 ID": the string value for the keyword with this id is the level 3 identifier number for the MOCA Content Outline entry. - "Tag ID": the string value for the keyword with this id is the tag identifier number for the MOCA Content Outline entry. Reporting a tag is optional, but a keyword for "Tag ID" must be included. The string value is left blank if no tag is reported. - "Free Text": the string value for the keyword with this id is the brief text description of the educational content. The string value is left blank if free text is not being reported.
source	Attribute used to indicate the Content Outline selection to which this keyword belongs.	<ul style="list-style-type: none"> - "01_ABAMCO" for the three keywords associated with the first Content Outline selection. - "02_ABAMCO" for the three keywords associated with a second Content Outline selection.
string	Attribute of keyword.	-Values to include for each keyword vary, please see the description of the id attribute above.

Joint Accreditation PARS Activity XML File Specification

CONFIDENTIAL

Joint Accreditation PARS Activity XML File Specification

HealthcareEducation

The XSD template has not been modified for this element. Any special JA-PARS data rules will be enforced by the file upload process, not via the XSD template.

Element Name	Description	Business Rules
healthcareEducation	Contains healthcare specific metadata for educational offerings.	-
credits	Container element.	- Include a separate <i>credits</i> element for each type of credit for which the activity is being offered
nonAccreditedProvider	The educational provider for this activity that is not the accredited provider. Jointly provided activities have a non-accredited provider. Repeat instances of this element for activities that have multiple joint providers	- If an activity is jointly provided (has an <i>activitySponsorship</i> value of "joint"), include a separate <i>nonAccreditedProvider</i> element for each joint provider. - If multiple credit elements are included in the activity, only include <i>nonAccreditedProvider</i> in the first credit element.
activityCertification	Identifies the category of credit awarded for the activity by the accredited medical education organization. Note that this is different than target audience. Target audience is a separate element and is only required for activities offering pharmacy credit.	-The following values are accepted by JA PARS: IPCE: for interprofessional continuing education credits AMA PRA Category 1: for CME credits Nursing: for nursing credits Pharmacy: for pharmacy credits AAPA Category 1: for physician assistant credits Psychologist: for psychology credits Optometrist: for optometry credits Social Worker: for social worker credits Dentist: for dentistry credits Dietetic CPEU: for dietician credits Athletic Training CEU: for athletic trainer credits
numberOfCredits	Number of continuing education credits associated with the activity	- Include a decimal value. Credits may be offered in increments of .25 or greater.
activityLocation	Indicates geographical location where an in-person activity takes place	-
city	Indicates city where in-person activity takes place	-Check that city is present depending on the <i>activityFormat</i> value

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Business Rules
stateorprovince	Indicates state where in-person activity takes place.	-Check that stateorprovince is present depending on the <i>activityFormat</i> value -If <i>country</i> is the USA, check that state is a valid two-letter state
country	Indicates country where in-person activity takes place.	-The country should be a valid 3-letter country code. See Appendix C for a list of country codes.
startDateTime	Indicates the date and time an activity begins.	-JA-PARS will ignore the time portion of startDateTime, Note: The MedBiquitous format requires that the startDateTime value must include BOTH the date and time components even though the JA-PARS upload process ignores the time portion of the value. Example: 2021-08-30T00:00:00.
endDateTime	Indicates the date and time an activity ends or is no longer available for use by learners.	-JA-PARS will ignore the time portion of endDateTime, Note: The MedBiquitous format requires that the startDateTime value must include BOTH the date and time components even though the JA-PARS upload process ignores the time portion of the value. Example: 2021-08-30T00:00:00.
activitySponsorship	Providership. Valid values are "direct" or "joint"	- Definition: A directly provided activity is planned, implemented and evaluated by the accredited provider. Include co-provided activities (provided by two accredited providers) in this category if you are the accredited provider awarding the credit. In contrast, a jointly provided activity is one that is planned, implemented and evaluated by the accredited provider and one or more non-accredited entities.

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Business Rules
activityFormat	<p>Indicates the type of learning activity. There can be more than one activityFormat defined for an activity.</p> <p>JA-PARS expects that the activityFormat value used is one of the recognized activity types and, if applicable, sub-categories.</p>	<p>- <i>activityFormat</i> instances where the activity type value is NOT one of the recognized types will be IGNORED and the entire activity record will NOT be processed by JA-PARS.</p> <p>- The system will check for a recognized activity types (also see Appendix B):</p> <ul style="list-style-type: none"> Live Course Regularly Scheduled Series Enduring Material Journal CME/CE Manuscript Review Test-Item Writing Committee Learning Performance/Quality Improvement Internet Searching and Learning Learning from Teaching Other/Blended Learning <p>Note: not all activity types are eligible for MOC for every board. See each board's requirements for MOC at https://accme.org/data-reporting/maintenance-of-certification/</p>
commercialSupport	<p>Indicates the existence of commercial support from a manufacturer of a commercial product.</p> <p>NOTE: Use the activityDescription:commercialSupportAmount sub-element to specify commercial support source and amount for an activity</p>	
targetAudience	<p>Container element for listing the types of professionals and the medical practice specialties for which the activity content is relevant.</p>	<p>The <i>targetAudience</i> element and at least one profession sub-element are required for activities offering pharmacy credit. Additionally, at least one specialty sub-element is required if the activity is being registered for MOC. MOC specialties are found in Appendix F.</p>

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Business Rules
profession	Name of a profession for which the activity content is relevant.	Valid professions are Physician, Nurse, Pharmacist, Pharmacy Technician, Physician Assistant, Psychologist, Optometrist, Social Worker, Dentist, Allied Dental Staff, Registered Dietitian, Dietetic Technician Registered, Athletic Trainer
specialty	Name of a specialty for which the activity content is relevant. Used in activity records which are being registered for MOC.	The list of valid specialties for MOC registration appears in Appendix F .

ParticipationMetrics

The XSD template has not been modified for this element. Any special JA-PARS data rules will be enforced by the file upload process, not via the XSD template.

Element Name	Description	Business Rules
participationMetrics	Container element.	-
participantsByCategory	<p>Defines the number of participants by category. The XSD file allows 0 or more participantsByCategory elements.</p> <p>This sub-element has the following attributes:</p> <ol style="list-style-type: none"> <i>category</i>-Indicates the participant category described. 	<p>-JA PARS will accept <i>participantsByCategory</i> instances that have a category value of "nurse", "pharmacist", "pharmacy technician", "physician", "physician assistant", "psychologist", "optometrist", "social worker", "dentist", "allied dental staff", "registered dietitians", "dietetic technicians registered", "athletic trainers" or "other". Other instances will be ignored.</p> <p>-Only one instance of each category will be processed. Repeated instances of a category will be ignored.</p> <p>-The "physician" category definition: the number of MD's and DO's that participated in the activity. Include residents in this category.</p> <p>-The "other" category definition: the number of participants other than those captured in the categories defined above. Do not include residents in this category. Residents should be counted as physicians.</p>

Joint Accreditation PARS Activity XML File Specification

XtensibleInfo

ACCME extended the XtensibleInfo element to include fields for data that ACCME wants to capture but are not part of the Medbiquitous standard.

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
XtensibleInfo	Container element.	0	1	Container	-	-
IsInterprofessional	Indicates whether this is an IPCE activity	0	1	Boolean	true, false	
CommendationTags	Container element	0	1	Container		For optional use by CE providers.
CommendationTag	Indicates a commendation criterion for which the provider may choose to use this activity as an example.	1	Unbounded	Text	<ul style="list-style-type: none"> - Engages Patients - Engages Students - Advances Data Use - Addresses Factors Beyond Clinical Care - Optimizes Communication Skills - Optimizes Technical/Procedural Skills - Creates Individualized Learning Plans - Improves Performance of Teams - Improves Healthcare Quality - Positive Impact on Patients/Community 	If the <i>CommendationTags</i> container is present, at least one <i>CommendationTag</i> element is required.
InKindSupports	Container element for in kind support data.	0	1	Container	-	-
InKindSupport	Container element. This sub-element has the following attributes: 1. <i>Source</i> - Source of commercial support.	1	unbounded	Container	true, false	Include a separate instance for each source of in-kind commercial support .
DeliveryMethods	Container element for listing DeliveryMethods	0	1	Container	-	-

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
DeliveryMethod	Describes the instructional delivery method for certain types of activities	1	2	Text	Valid options for Live Course or Regularly Scheduled Series format activities: - In-Person - Live-Streamed For Enduring Material format activities: - Online - Print/Other	If the <i>DeliveryMethods</i> container is present, at least one <i>DeliveryMethod</i> element must be included.
MeasuredOutcomes	Container element for MeasuredOutcome elements	0	unbounded	Container		Include a separate MeasuredOutcomes element for each MeasuredOutcome element
MeasuredOutcome	Describes the intended outcomes for the activity	1	1	String	Valid options are: - Learner Competence - Learner Performance - Patient Health - Community Health - Learner Knowledge	Include only one MeasuredOutcome per MeasuredOutcomes container. When saved, the valid options will be translated to the following labels within the user interface: <ul style="list-style-type: none"> Community Health → Community/Population Health Learner Competence → Learner/Team Competence Learner Performance → Learner/Team Performance
MeasurementType	Describes how the activity outcomes are measured	0	2	String	Valid options are: - Objective - Subjective	
MOCRegistrations	Container element for one or more maintenance of certification registrations	0	1	Container	-	Optional; not required for activity registration, but required for activity to be registered for MOC

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
MOCRegistration	Container element	0	unbounded	Container	-	One per certifying board. Include one <i>MOCRegistration</i> element for each certifying board for which MOC will be offered.
boardName	Indicates name of the specialty board for which the MOC is being registered	0	1	Text	ABA, ABIM, ABOHNS, ABOS ABP, ABPATH, ABS	Must be a board currently accepting activities registered in JA-PARS.
mocPoints	Indicates the number of MOC points for which the activity is registered.	0	1	Decimal	=> 0.25	Must be a multiple of .25
MOCcreditType	Indicates the board MOC categories for which the activity is registered	0	Unbounded	String	Varies by certifying board	Business rules for MOC credit types vary by board. Refer to Appendix G for a list of MOC credit types by board.
CreditClaimDate	The cut-off date for participants to request MOC credit for completing the activity.	0	1	Date/time	YYYY-MM-DDT00:00:00	JA-PARS will not accept records with completion dates after the listed credit claim date. JA-PARS will ignore the time portion of the date/time value.
ForPublicList	Indicates whether this activity is to be included in the published list of activities made available to physicians	0	1	Boolean	true, false	
FeeForParticipation	Indicates whether a fee is associated with learner participation in the activity	0	1	String	Yes No, it's free Variable	
ActivityRegistration	Indicates whether the activity is available to all potential learners or if participation is limited (e.g., to staff of the education provider's institution).	0	1	String	Open to all, Limited	
IsMeritBasedIncentivePaymentSystem	Indicates whether the activity qualifies for MIPS	0	1	Boolean	true, false	

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
REMS	Container element for REMS information	0	1	Container		Include only if the activity is designated for instruction on an FDA Risk Evaluation and Mitigation Strategy program.
REMSType	Indicates which REMS the activity content addresses	0	1	String	Opioid Analgesic, Mycophenolate	
REMSRelatedIdentifier	For reporting of special grant identifiers related to this REMS designation	0	1	String		Use the RPC ID formatted as EG-#####-###.
activityRecordAction	The intended transaction type for this activity record.	1	1	String	Add, Update, Delete	
closeActivityRecord	Indicates whether this activity record transaction includes final information about the activity.	1	1	Boolean	true, false	A value of "true" for this field will preclude further updates to the activity record. Activities must have an end date in the past and all activity information completed for a value of "true" to successfully validate.
PharmacyActivityType	Indicates which pharmacy activity type this activity represents	0	1	Text	Knowledge, Application, Certificate Program	Required for activities offered for pharmacy credit. Must be a single value.
PharmacyActivityTopic	Indicates which pharmacy activity topic this activity covers	0	1	Text	01-Disease State Management/Drug Therapy 02-AIDS Therapy 03-Law Related to Pharmacy Practice 04-Pharmacy Administration 05-Patient Safety 06-Immunizations 07-Compounding 08-Pain Management 99-Additional Topic Areas	Required for activities offered for pharmacy credit. Must be a single value.
PharmacyLiveDates	Container element for PharmacyLiveDates data	0	1	Container		

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
PharmacyLiveDate	Container element for data required for live pharmacy activities	0	unbounded	Container		
LiveDate	Date and start time of this instance of a live pharmacy activity	0	1	Date	Date/time value in format YYYY-MM-DDThh_mm_ss	Example: 2022-01-31T00:00:00
PharmacySequenceNumber	An element of generated ACPE Universal Activity Number (UAN)	0	1	Text	3–4-digit number starting from 1 going to 9999 for each provider. Number resets when the first activity is entered with a start date for that given calendar year.	<p>In general, you should not include this element in the payload when creating an activity – it will be generated automatically and is returned in the response payload.</p> <p>You must include the previously assigned PharmacySequenceNumber when performing an activity update.</p> <p>If you do not include the previously assigned PharmacySequenceNumber when updating an activity, you will receive an error.</p> <p>Sequence Number resets to 1 when the first activity is entered with a start date for that given calendar year for each provider.</p>
UANPharmacy	The generated ACPE Universal Activity Number (UAN) for pharmacist	0	1	Text	UAN value in format of {Provider ID}–{Joint Providership Designator}–{Year of start date for activity}–{Sequence Number}–{Format Designator}–{Topic Designator}–{Target Audience}	

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
UANPharmacyTech	The generated ACPE Universal Activity Number (UAN) for pharmacy technicians	0	1	Text	UAN value in format of {Provider ID}-{Joint Providership Designator}-{Year of start date for activity}-{Sequence Number}-{Format Designator}-{Topic Designator}-{Target Audience}	
HasPharmacyRecertifications	Indicates whether this activity is associated with a pharmacy certificate program	0	1	Text	true, false, not sure	
PharmacyRecertificationRequirements	Container element for data required for live pharmacy recertification requirements	0	1	Container		Optional; not required for activity registration but required for live pharmacy recertification requirements.
RecertificationRequirement	Container element for data required for live pharmacy recertification requirement information	0	unbounded	Container		
PharmacyAudience	Pharmacy audience for the requirement	1	1	Text	Valid values are Pharmacists, Pharmacists Prescriptive Authority Pharmacy Technicians	
PharmacyRequirement	Requirement topic for the certification	1	1	Text	Valid values can be found in the appendix Pharmacy Recertification Requirements by Audience	
HasPharmacyContentTags	Indicates whether this activity is associated with state-specific content topics	0	1	Text	true, false, not sure	
PharmacyContentTags	Container element for data required for pharmacy state regulatory content tags	0	1	Container		Optional; not required for activity registration but required for pharmacy state regulatory content tags.
PharmacyState	State(s) for which the content topic is applicable	1	unbounded	Text	Valid values are state abbreviations found in appendix State Abbreviations	

Joint Accreditation PARS Activity XML File Specification

Element Name	Description	Min Occurs	Max Occurs	Type	Enumeration/Valid Values	Business Rules
PharmacyContentTopic	Topic(s) for which the activity meets state regulatory requirements	1	unbounded	Text	Valid values can be found in the appendix Pharmacy State Regulatory Content Areas	
HasStateContentTags	Indicates whether this activity is associated with state-specific content topics	0	1	Boolean	True, False	True=Yes, I will assign the tags False=No, do not tag activity
StateContentTags	Container element for data required for tagging activities offering AMA PRA Category 1 credit	0	1	Container		Optional; not required for activity registration but required for tagging activities offering AMA PRA Category 1 credit.
StateContent	Container element for data required for an instance of state content	0	unbounded	container		
StateContentDomain	The parent category for the state content information	1	1	Text	Currently the only valid value is Opioids	
StateContentTopic	The topic within the domain	1	1	Text	Valid values can be found in the appendix State Content Tagging Content Areas	The mapping of a topic to a state is maintained within PARS/JA-PARS for the AMA PRA Category 1 credit so there is no specification of state.

Appendices

A: Saving and closing Activities

The table below provides details on the data the PARS System requires for submitting an activity record and for closing an activity record. A closed activity record cannot be edited further.

Field Name	Data is Required in Field:	
	To save Active record	To close out activity record
ReportingStartDate	Yes	Yes
ReportingEndDate	Yes <i>Note: This field is required by the MedicalEducationMetrics specification, but it will not be displayed on the JA-PARS system.</i>	Yes <i>Note: This field is required by the MedicalEducationMetrics specification, but it will not be displayed on the JA-PARS system.</i>
identifier	Yes	Yes
title	Yes	Yes
startDateTime	Yes	Yes
endDateTime	Yes	Yes
city	Required if the ActivityFormat is one of the following: - Live Course - Regularly Scheduled Series and DeliveryMethod is "In-Person" For other ActivityFormats data should not be entered	Required if the ActivityFormat is one of the following: - Live Course - Regularly Scheduled Series and DeliveryMethod is "In-Person" For other ActivityFormats data should not be entered
stateorprovince	Required if country is USA and the ActivityFormat is one of the following: • Live Course • Regularly Scheduled Series and DeliveryMethod is "In-Person" For other ActivityFormats data should not be entered	Required if country is USA and the ActivityFormat is one of the following: • Live Course • Regularly Scheduled Series and DeliveryMethod is "In-Person" For other ActivityFormats data should not be entered
country	Required if the ActivityFormat is one of the following: - Live Course - Regularly Scheduled Series and DeliveryMethod is "In-Person" For other ActivityFormats data should not be entered	Required if the ActivityFormat is one of the following: - Live Course - Regularly Scheduled Series and DeliveryMethod is "In-Person" For other ActivityFormats data should not be entered
activitySponsorship	Yes	Yes <i>(Note: "sponsorship" is now displayed in the JA-PARS system as "providership")</i>
activityFormat	Yes	Yes
participantsByCategory	No	Yes, the system requires data for at least one category of participants. <i>(Note: May be a zero if no participation occurred.)</i>
commercialSupport	No	Yes
nonAccreditedProvider	No	If the activitySponsorship field is "joint", then this field is required. If the activitySponsorship field is "direct" or not entered, then no data should be entered in this field.

Field Name	Data is Required in Field:	
	To save Active record	To close out activity record
credits	Yes	Yes
description	Yes	Yes
commercialSupportAmount	No	If commercialSupport is "Yes", then each commercial support source should have a value entered in this field. If commercialSupport is "No", then no data should be entered in this field.
MeasuredOutcomes	No	Yes (at least one)
CreditClaimDate	No (Yes, if the activity is an MOC activity)	No (Yes, if the activity is an MOC activity)
ForPublicList	No	Yes
FeeForParticipation	No (Yes, if ForPublicList is set to true)	No (Yes, if ForPublicList is set to true)
ActivityRegistration	No (Yes, if ForPublicList is set to true)	No (Yes, if ForPublicList is set to true)
IsMeritBasedIncentivePaymentSystem	No	No
REMS	No	No (Yes, if the activity is a REMS activity; For REMS activities, REMSType and REMSRelatedIdentifier fields also required.)
ActivityRecordAction	Yes	Yes
CloseActivityRecord	No	Yes (must be "True" to indicate that the activity record submission is intended to close the activity record.)

B: JA-PARS Activity Types & Activity Sub-Categories

These Activity Types and Delivery Method Categories are the valid combinations for use in the activityFormat and DeliveryMethod elements.

Activity Type	Delivery Method
Live Course	In-Person, Live-Streamed
Regularly Scheduled Series	In-Person, Live-Streamed
Enduring Material	Online, Print/Other
Journal CME/CE	Not applicable
Manuscript Review	Not applicable
Test-Item Writing	Not applicable
Committee Learning	Not applicable
Performance/Quality Improvement	Not applicable
Internet Searching and Learning	Not applicable
Learning from Teaching	Not applicable
Other/Blended Learning	Not applicable

C: List of Country Codes

Below is a list of the 3-letter country codes for the [country](#) element.

Note: Please see the [U.S. Territories / Regions](#) section for information regarding U.S. territory / region processing.

Country	Code
Afghanistan	AFG
Aland Islands	ALA
Albania	ALB
Algeria	DZA
American Samoa	ASM
Andorra	AND
Angola	AGO
Anguilla	AIA
Antarctica	ATA
Antigua and Barbuda	ATG
Argentina	ARG
Armenia	ARM
Aruba	ABW
Australia	AUS
Austria	AUT
Azerbaijan	AZE
Bahamas	BHS
Bahrain	BHR
Bangladesh	BGD
Barbados	BRB
Belarus	BLR
Belgium	BEL
Belize	BLZ
Benin	BEN
Bermuda	BMU
Bhutan	BTN
Bolivia (Plurinational State of)	BOL
Bonaire, Sint Eustatius and Saba	BES
Bosnia and Herzegovina	BIH
Botswana	BWA
Bouvet Island	BVT
Brazil	BRA
British Indian Ocean Territory	IOT
British Virgin Islands	VGB
Brunei Darussalam	BRN
Bulgaria	BGR
Burkina Faso	BFA
Burundi	BDI
Cabo Verde	CPV
Cambodia	KHM
Cameroon	CMR
Canada	CAN
Cayman Islands	CYM
Central African Republic	CAF
Chad	TCD
Chile	CHL
China	CHN

Country	Code
China, Hong Kong Special Administrative Region	HKG
China, Macao Special Administrative Region	MAC
Christmas Island	CXR
Cocos (Keeling) Islands	CCK
Colombia	COL
Comoros	COM
Congo	COG
Cook Islands	COK
Costa Rica	CRI
Côte d'Ivoire	CIV
Croatia	HRV
Cuba	CUB
Curaçao	CUW
Cyprus	CYP
Czechia	CZE
Democratic People's Republic of Korea	PRK
Democratic Republic of the Congo	COD
Denmark	DNK
Djibouti	DJI
Dominica	DMA
Dominican Republic	DOM
Ecuador	ECU
Egypt	EGY
El Salvador	SLV
Equatorial Guinea	GNQ
Eritrea	ERI
Estonia	EST
Eswatini	SWZ
Ethiopia	ETH
Falkland Islands (Malvinas)	FLK
Faroe Islands	FRO
Fiji	FJI
Finland	FIN
France	FRA
French Guiana	GUF
French Polynesia	PYF
French Southern Territories	ATF
Gabon	GAB
Gambia	GMB
Georgia	GEO
Germany	DEU
Ghana	GHA
Gibraltar	GIB
Greece	GRC
Greenland	GRL
Grenada	GRD
Guadeloupe	GLP

Country	Code
Guam	GUM
Guatemala	GTM
Guernsey	GGY
Guinea	GIN
Guinea-Bissau	GNB
Guyana	GUY
Haiti	HTI
Heard Island and McDonald Islands	HMD
Holy See	VAT
Honduras	HND
Hungary	HUN
Iceland	ISL
India	IND
Indonesia	IDN
Iran (Islamic Republic of)	IRN
Iraq	IRQ
Ireland	IRL
Isle of Man	IMN
Israel	ISR
Italy	ITA
Jamaica	JAM
Japan	JPN
Jersey	JEY
Jordan	JOR
Kazakhstan	KAZ
Kenya	KEN
Kiribati	KIR
Kuwait	KWT
Kyrgyzstan	KGZ
Lao People's Democratic Republic	LAO
Latvia	LVA
Lebanon	LBN
Lesotho	LSO
Liberia	LBR
Libya	LBY
Liechtenstein	LIE
Lithuania	LTU
Luxembourg	LUX
Madagascar	MDG
Malawi	MWI
Malaysia	MYS
Maldives	MDV
Mali	MLI
Malta	MLT
Marshall Islands	MHL
Martinique	MTQ
Mauritania	MRT
Mauritius	MUS
Mayotte	MYT
Mexico	MEX
Micronesia (Federated States of)	FSM
Monaco	MCO
Mongolia	MNG

Country	Code
Montenegro	MNE
Montserrat	MSR
Morocco	MAR
Mozambique	MOZ
Myanmar	MMR
Namibia	NAM
Nauru	NRU
Nepal	NPL
Netherlands	NLD
New Caledonia	NCL
New Zealand	NZL
Nicaragua	NIC
Niger	NER
Nigeria	NGA
Niue	NIU
Norfolk Island	NFK
North Macedonia	MKD
Northern Mariana Islands	MNP
Norway	NOR
Oman	OMN
Pakistan	PAK
Palau	PLW
Panama	PAN
Papua New Guinea	PNG
Paraguay	PRY
Peru	PER
Philippines	PHL
Pitcairn	PCN
Poland	POL
Portugal	PRT
Puerto Rico	PRI
Qatar	QAT
Republic of Korea	KOR
Republic of Moldova	MDA
Réunion	REU
Romania	ROU
Russian Federation	RUS
Rwanda	RWA
Saint Barthélemy	BLM
Saint Helena	SHN
Saint Kitts and Nevis	KNA
Saint Lucia	LCA
Saint Martin (French Part)	MAF
Saint Pierre and Miquelon	SPM
Saint Vincent and the Grenadines	VCT
Samoa	WSM
San Marino	SMR
Sao Tome and Principe	STP
Saudi Arabia	SAU
Senegal	SEN
Serbia	SRB
Seychelles	SYC
Sierra Leone	SLE

Country	Code
Singapore	SGP
Sint Maarten (Dutch part)	SXM
Slovakia	SVK
Slovenia	SVN
Solomon Islands	SLB
Somalia	SOM
South Africa	ZAF
South Georgia and the South Sandwich Islands	SGS
South Sudan	SSD
Spain	ESP
Sri Lanka	LKA
State of Palestine	PSE
Sudan	SDN
Suriname	SUR
Svalbard and Jan Mayen Islands	SJM
Sweden	SWE
Switzerland	CHE
Syrian Arab Republic	SYR
Tajikistan	TJK
Thailand	THA
Timor-Leste	TLS
Togo	TGO
Tokelau	TKL
Tonga	TON
Trinidad and Tobago	TTO
Tunisia	TUN

Country	Code
Turkey	TUR
Turkmenistan	TKM
Turks and Caicos Islands	TCA
Tuvalu	TUV
Uganda	UGA
Ukraine	UKR
United Arab Emirates	ARE
United Kingdom of Great Britain and Northern Ireland	GBR
United Republic of Tanzania	TZA
United States Minor Outlying Islands	UMI
United States of America	USA
United States Virgin Islands	VIR
Uruguay	URY
Uzbekistan	UZB
Vanuatu	VUT
Venezuela (Bolivarian Republic of)	VEN
Viet Nam	VNM
Wallis and Futuna Islands	WLF
Western Sahara	ESH
Yemen	YEM
Zambia	ZMB
Zimbabwe	ZWE

Source: United Nations, October 15, 2021 list. <https://unstats.un.org/unsd/methodology/m49/>

U.S. Territories / Regions:

For the following U.S. territories / regions, the country code of USA within the [country](#) element should be used along with the applicable U.S. State abbreviation within the [stateorprovince](#) element.

Country	Country Code	U.S State Abbreviation
American Samoa	USA	AS
Federated States of Micronesia	USA	FM
Guam	USA	GU
Marshall Islands	USA	MH
Northern Mariana Islands	USA	MP
Puerto Rico	USA	PR
Palau	USA	PW
U.S. Virgin Islands	USA	VI

D: State Abbreviations

Below is a list of U.S. State abbreviations for use within the [stateorprovince](#) element.

State Name	State Abbreviation
Alaska	AK
Alabama	AL
Armed Forces Pacific	AP
Arkansas	AR
American Samoa	AS
Arizona	AZ
California	CA
Colorado	CO
Connecticut	CT
District of Columbia	DC
Delaware	DE
Florida	FL
Federated States of Micronesia	FM
Georgia	GA
Guam	GU
Hawaii	HI
Iowa	IA
Idaho	ID
Illinois	IL
Indiana	IN
Kansas	KS
Kentucky	KY
Louisiana	LA
Massachusetts	MA
Maryland	MD
Maine	ME
Marshall Islands	MH
Michigan	MI
Minnesota	MN
Missouri	MO
Northern Mariana Islands	MP
Mississippi	MS
Montana	MT
North Carolina	NC
North Dakota	ND
Nebraska	NE
New Hampshire	NH

State Name	State Abbreviation
New Jersey	NJ
New Mexico	NM
Nevada	NV
New York	NY
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Puerto Rico	PR
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Virginia	VA
Virgin Islands	VI
Vermont	VT
Washington	WA
Wisconsin	WI
West Virginia	WV
Wyoming	WY

E: Registering an Activity for Maintenance of Certification (MOC)/Continuing Certification (CC)

Accredited CME providers can register activities for a participating board's Maintenance of Certification (MOC)/Continuing Certification (CC) program using the PARS XML batch upload process, as long as they meet the requirements outlined in the board's program guide. Complete information about CME for MOC and links to each board's program guide is available at <https://accme.org/data-reporting/maintenance-of-certification/>.

Registering an activity for MOC is optional for the provider. If an activity is not being registered for MOC, then the MOC fields cannot be included in the activity record.

Some activity types cannot be registered for specific boards. Acceptable activity types are listed in each board's program guide accessible through the [ACCME website](#).

The fields below must be present in the XML for each activity that is being registered for MOC.

- a. LOM
 - i. **identifier**: an additional identifier element of container type "URL" is required for reporting an activity URL.
 - ii. **Keyword** element and corresponding sub-elements are required only when registering an activity for ABA.
- b. Healthcare Education
 - i. **targetAudience** must contain at least one "specialty" element
 - ii. **endDateTime** is required

- c. Extensible Information
 - i. **CreditClaimDate** is required
 - ii. **MOCRegistrations** must contain at least one "MOCRegistration" element
 - iii. **MOCRegistration** must contain:
 - 1. **specialtyBoard** with the name of a valid specialty board (valid specialty boards are: ABA, ABIM, ABOHNS, ABOS, ABP, ABPATH, ABS, ABTS)
 - 2. **mocPoints** with a number of at least 0.25 representing the number of MOC points.
 - 3. At least one MOCCreditType with the value of valid credit type for the specialty board (listed in [Appendix G](#)).
 - iv. **FeeForParticipation** must be included
 - v. **ActivityRegistration** must be included

F: MOC specialties by board

American Board of Internal Medicine (ABIM) list of specialties

These values are used in the specialty sub-element when reporting activities registered for ABIM MOC.

ABIM Specialty
Adolescent Medicine
Adult Congenital Heart Disease
Advanced Heart Failure and Transplant Cardiology
Cardiovascular Disease
Clinical Cardiac Electrophysiology
Critical Care Medicine
Endocrinology, Diabetes, and Metabolism
Gastroenterology
Geriatric Medicine
Hematology
Hospice and Palliative Medicine
Hospital Medicine
Infectious Disease
Internal Medicine
Interventional Cardiology
Medical Oncology
Nephrology
Neurocritical Care
Pulmonary Disease
Rheumatology
Sleep Medicine
Sports Medicine
Transplant Hepatology

American Board of Anesthesiology (ABA) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABA MOCA.

ABA Specialty
Ambulatory/Outpatient
Cardiac Anesthesia
Critical Care Medicine
General Operative Anesthesia
Hospice and Palliative Medicine
Neuro Anesthesia
Neurocritical Care
Obstetric Anesthesia
Pain Medicine
Pediatric Anesthesia
Regional Anesthesia/Acute Pain
Sleep Medicine
Thoracic Anesthesia
Trauma

American Board of Pediatrics (ABP) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABP MOC.

ABP Specialty
Adolescent Medicine
Child Abuse Pediatrics
Clinical Informatics
Developmental-Behavioral Pediatrics
General Pediatrics
Hospice & Palliative Medicine
Hospital Medicine
Medical Toxicology
Neonatal-Perinatal Medicine
Neurodevelopmental Disabilities

ABP Specialty
Pediatric Cardiology
Pediatric Critical Care Medicine
Pediatric Emergency Medicine
Pediatric Endocrinology
Pediatric Gastroenterology
Pediatric Hematology-Oncology
Pediatric Infectious Diseases
Pediatric Nephrology
Pediatric Neurology
Pediatric Pulmonology
Pediatric Rheumatology
Pediatric Transplant Hepatology
Professionalism/Patient Safety/Other Skills
Sleep Medicine
Sports Medicine

American Board of Otolaryngology-Head & Neck Surgery (ABOHNS) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABOHNS MOC

ABOHNS Practice Areas
Allergy
Facial Plastic & Reconstructive Surgery
Head & Neck
Laryngology
Otology
Neurotology
Pediatric Otolaryngology
Rhinology
Sleep Medicine
General Otolaryngology

American Board of Orthopaedic Surgery (ABOS) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABOS MOC

ABOS Practice Areas
Adult Reconstruction
Foot and Ankle
General Orthopaedics
Musculoskeletal Oncology
Orthopaedic Sports Medicine
Orthopaedic Trauma
Pediatric Orthopaedic Surgery
Shoulder and Elbow
Surgery of the Hand
Surgery of the Spine

American Board of Pathology (ABPath) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABPath CC

ABPath Practice Areas
All Practice Areas (e.g. ethics)
Blood Bank/ Transfusion Medicine
Breast
Cardiovascular
Chemical Pathology
Clinical Pathology
Cytopathology
Dermatopathology
Endocrine
Female Reproductive
Forensic Pathology
GI (incl. Liver, Pancreas, Biliary)
Head & Neck/ Oral
Hematology (Blood, BM)
Hematopathology (LN, Spleen)
Hemostasis & Thrombosis/Coagulation
Infectious Diseases/ Medical Microbiology
Lab Management
Male Genital
Medical Director
Molecular Genetic Pathology
Neuropathology (incl. Neuromuscular)
Other
Patient Safety
Pediatric Pathology
Placenta
Pulmonary, Mediastinum
Renal/Medical Renal
Soft Tissue & Bone
Surgical Pathology
Transplant Pathology
Urinary Tract

American Board of Surgery (ABS) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABS CC

ABS Practice Areas
Bariatric Surgery
Complex General Surgical Oncology
Hand Surgery
Hospice & Palliative Medicine
Neurocritical Care
Pediatric Surgery
Surgical Critical Care
Vascular Surgery
General Surgery

American Board of Thoracic Surgery (ABTS) list of practice areas

These values are used in the specialty sub-element when reporting activities registered for ABTS CC

ABTS Practice Areas
Adult Cardiac
General Thoracic
Cardiothoracic
Congenital Cardiac
Critical Care
Cardiovascular
Non-Thoracic Surgery

G: Credit types for MOC registration

Each board participating in CME in support of MOC has defined one or more credit types specific to the MOC program. The requirements for each of these types can be found in the board's program guide, which is accessible at <https://accme.org/data-reporting/maintenance-of-certification/>. These types can be indicated in the XML XtensibleInfo element **MOCCreditType**. MOC registration for each board requires at least one element indicating the appropriate credit type. The corresponding credit types are indicated below.

Board Name	MOC Credit Type	Additional Business Rules
American Board of Anesthesiology	Lifelong Learning	
	Patient Safety	Patient Safety can only be submitted in combination with another credit type
American Board of Internal Medicine	Medical Knowledge	
	Practice Assessment	
	Patient Safety	Patient Safety can only be submitted in combination with another credit type
American Board of Otolaryngology – Head and Neck Surgery	Self-Assessment	
	Improvement in Medical Practice	
	Patient Safety	Patient Safety can only be submitted in combination with another credit type
American Board of Orthopaedic Surgery	Accredited CME	Accredited CME is required for ABOS MOC registration
	Pre-Approved Self-Assessment Examination	ABOS must have pre-approved the activity for Self-Assessment Examination credit or registration will be rejected.
American Board of Pathology	Lifelong Learning	All ABPath MOC activities must at minimum meet the requirements of Lifelong Learning. Lifelong Learning is required for ABPath MOC registration.
	Improvement in Health and Healthcare	
American Board of Pediatrics	Lifelong Learning and Self-Assessment	
American Board of Surgery	Accredited CME	All ABS CC activities must at minimum meet the requirements of Accredited CME. Accredited CME is required for ABS CC registration.
	Self-Assessment	
American Board of Thoracic Surgery	Accredited CME	All ABTS CC activities must at minimum meet the requirements of Accredited CME. Accredited CME is required for ABTS CC registration.
	Self-Assessment	Self-Assessment can only be submitted in combination with another credit type.

Board Name	MOC Credit Type	Additional Business Rules
	Performance in Practice	Performance in Practice can only be submitted in combination with another credit type.
	Patient Safety	Patient Safety can only be submitted in combination with another credit type.

H: Commercial Supporter Source List

If the source of commercial support appears in the following list, use the name as formatted below for reporting in JA-PARS.

3M Health Care
Abbott (Any division)
Abbott Laboratories
AbbVie (Any division)
AbioMed
ABIOMED, Inc.
Ablation Frontiers, Inc.
Accuray Inc.
AccuVein, LLC
Acorn Cardiovascular Inc.
Actelion Pharmaceuticals
Active Implants Corporation
Addition Technology Inc.
Adept-Med International Inc.
Aderans Research Institute
Advanced BioHealing, Inc.
Advanced Medical Optics, Inc.
AGA Medical Corporation
Agion Technologies
Alcon (Any division)
Alexion Pharmaceuticals
Allegro Diagnostics, Inc.
Allergan (Any division)
Alliance Home Healthcare
Alphatec Spine, Inc.
Alure Medical Inc.
Amarin Pharmaceuticals, Inc.
American Medical Systems
Amgen, Inc.
Amylin Pharmaceuticals, Inc.
Andersen Products, Inc.
Aperio Technologies, Inc.
Aplicare Inc.
Arbor Pharmaceuticals
ARC Specialty Products, Balchem Corp.
Arobella Medical, LLC
Arthrex
Artificial Muscle, Inc.
Astellas (Any division)

Asthmatx, Inc.
AstraZeneca (Any division)
Atos Medical Inc.
Atrium Medical Corporation
ATS Medical, Inc.
Autonomic Technologies, Inc.
Auxilium Pharmaceuticals
AxoGen, Inc.
B. Braun Medical, Inc.
Bard Peripheral Vascular, Inc.
Bausch & Lomb (Any division)
Baxano, Inc.
Baxter International, Inc.
Bayer (Any division)
Bayer HealthCare, Diabetes Care
BD
Beckman Coulter, Inc.
Berlin Heart Inc.
BioControl Ltd.
BioCure, Inc.
Biogen
BioMarker Strategies, LLC
BioMedical Life Systems, Inc.
bioMerieux, Inc.
Biomerix Corporation
Biomet, Inc.
BioMimetic Therapeutics, Inc.
Bio-Rad Laboratories
Biosense Webster, Inc.
BioSurface Engineering Technologies, Inc.
BIOTRONIK, Inc.
Boehringer Ingelheim Pharmaceuticals, Inc.
Boston Scientific Corporation
Bracco Diagnostics, Inc.
Bristol-Myers Squibb Company
Bristol-Myers Squibb Company Worldwide Medicines Group
Broncus Technologies Inc.
BTG International, Inc.
C. R. Bard, Inc.

Calgary Scientific Inc.
Calibra Medical, Inc.
Cardinal Health
CardioFocus, Inc.
CardioMag Imaging, Inc.
CardioMEMS, Inc.
CaridianBCT, Inc.
Cayenne Medical Inc.
CEA Global, Inc.
Celera
Celgene Corporation
Celleration, Inc.
Cepheid
Chesson Labs
Chiesi
Choice Medical, Inc.
Cleveland Medical Devices
Clovis Oncology
Coeur Incorporated
Cohera Medical, Inc.
ConforMIS, Inc.
ConMed
Consensus Orthopedics Inc.
ConvaTec Inc.
Cook Medical, Inc.
CooperSurgical, Inc.
CoreValve Inc.
Corin USA
Covalon Technologies, Ltd.
Covidien
Crescendo Bioscience
CriTech Research, Inc.
CSL Behring, LLC
Cubist Pharmaceuticals, Inc.
CUREMARK
CVRx, Inc.
Cyberonics, Inc.
Cytomedix, Inc.
Cytori Therapeutics, Inc.
Daiichi Sankyo, Inc.
DEKA Research & Development Corporation
Deltex Medical, Inc.
DePuy (Any division)

Digirad Corporation
Disc Dynamics, Inc.
Discovery Laboratories, Inc.
DJO Incorporated
EarlyDETECT Inc.
Edwards Lifesciences Corporation
EGI
Eisai, Inc.
Electro-Optical Sciences, Inc.
EMD Serono
Endo Pharmaceuticals, Inc.
Endocare Inc.
Eng3 Corporation
Entellus Medical, Inc.
EnteroMedics Inc.
Etex Corporation
Ethicon (Any division)
EVAHEART MEDICAL USA, INC.
Evalve, Inc.
EXACT Sciences Corporation
Exelixis
EyeLC, Inc.
febit
Fenwal Inc.
Fisher & Paykel Healthcare
FMC BioPolymer
Focus Diagnostics, Inc. Healthcare Diagnostics Group
Forest (Any division)
Fujifilm (Any division)
Galderma (Any division)
Galil Medical
Gambro Renal Products, Inc.
GE Healthcare
GeneEX Incorporation
Genentech (Any division)
Genomic Health, Inc.
Genzyme (Any division)
Genzyme Corporation
GI Dynamics, Inc.
Gilead Sciences, Inc.
Given Imaging
GlaxoSmithKline
Globus Medical, Inc.

Grace Medical, Inc.
Greatbatch, Inc.
Greer Laboratories, Inc.
Grifols
Hansen Medical, Inc.
Hard Manufacturing Company, Inc.
Harmac Medical Products, Inc.
Healthpoint, Ltd.
Heartscape Technologies Inc.
Heidelberg Engineering, Inc.
Helicos BioSciences Corporation
HemCon Medical Technologies, Inc.
Heraeus Medical GmbH
Hill-Rom Company, Inc.
Hitachi (Any division)
Hoffmann-La Roche Inc.
Hollister Incorporated
Hologic, Inc.
Hospira, Inc.
Hutchinson Technology Inc. BioMeasurement Division
Hygeia II Medical Group Inc.
IDev Technologies, Inc.
Imalux Corporation
Immucor, Inc.
Incyte Corporation
InfraReDx, Inc.
Inset Technologies Incorporated
InSightec Inc.
Instrumentation Laboratory
Integra LifeSciences Corporation
Intel Corporation
IntelligentMD
Interface Biologics, Inc.
Intralink-Spine LLC
Ipsen
IRIS International, Inc.
ISTO Technologies, Inc.
J.R. Medical, Inc.
Janssen (Any division)
Jazz Pharmaceuticals, Inc.
Johnson & Johnson
K2M, Inc.
Kadmon Pharmaceuticals

Kaneka Pharma America LLC
Karl Storz Endoscopy
Kensey Nash Corporation
KFx Medical Inc.
Kinetic Concepts, Inc.
Kowa Pharmaceuticals
KRONUS, Inc.
Lansinoh Laboratories
Lexicor Medical Technology, LLC
Life Instrument Corporation
LifeSync Corporation
Lilly (Any division)
Lundbeck, Inc.
M2S, Inc.
MagForce Nanotechnologies AG
Mallinckrodt Pharmaceuticals
Masimo (Any division)
Maverick Biosciences Pty Ltd
McKesson (Any division)
Mead Johnson Nutrition Company
Meda Pharmaceuticals, Inc.
Mederi Therapeutics, Inc.
Medicsight, PLC
Mediplus Ltd
Medtronic (Any division)
MedVenture Technology Corporation
Merck (Any division)
Merck Human Health Division - U.S. Human Health
Merck Research Laboratories
Merck Vaccine Division
Merz (Any division)
Micell Technologies, Inc.
Micronics, Inc.
MicroPhage, Incorporated
MicroTransponder Inc.
Micrus Endovascular Corporation
Millennium Pharmaceuticals, Inc.
Milliken & Company
Mindray
Minnesota Medical Development, Inc.
MinSURG Corporation
mtm laboratories AG
Mylan (Any division)

Myriad (Any division)
NanoVasco, Inc.
Navilyst Medical
nContact Surgical
NDI Medical
NeoMatrix
NeoVista, Inc.
Nerites Corporation
Nestle (Any division)
NeuroPace, Inc.
Newport Medical Instruments, Inc.
Nexus6 Ltd
Nitric BioTherapeutics Inc.
Novartis Corporation Pharmaceuticals
Novartis Vaccines & Diagnostics, Inc.
Novasys Medical, Inc.
NovaVision, Inc.
Novo Nordisk (Any division)
Novocure
NPS Pharmaceuticals, Inc.
NuMED Inc
NuVasive
OHK Medical Devices, Inc.
Olympus Corporation
Oncoscope, Inc.
One Word dmg
Onyx Pharmaceuticals, Inc.
OPHTEC USA, Inc.
OptiMedica Corporation
Orla Protein Technologies Ltd
OrthAlign, Inc.
Orthofix Inc.
OrthoPediatrics, LLC
Orthovita Inc.
Osmetech Molecular Diagnostics
Otsuka America Pharmaceutical, Inc.
Otsuka America Pharmaceutical, Inc. (OAPI)
Otsuka America, Inc. (OAI)
Otsuka Maryland Medicinal Laboratories (OMML)
Otsuka Pharmaceutical Development & Commercialization, Inc. (OPDC)
Pacira Pharmaceuticals, Inc.
Paracor Medical
Paradigm Spine, LLC

ParagonDX, LLC
Pathfinder Therapeutics, Inc.
PathoLase, Inc.
Pathwork Diagnostics, Inc.
PEAK Surgical, Inc.
Pega Medical Inc.
Percutaneous Systems, Inc.
Pfizer (Any division)
Philips (Any division)
PhotoThera
pico-tesla Magnetic Therapies, LLC
PolyRemedy, Inc.
Porex Corporation
Prescient Medical, Inc.
Prizm Medical, Inc.
PrognostiX, Inc.
Prolacta Bioscience, Inc.
Prometheus Laboratories, Inc.
ProRhythm, Inc.
Proteogenix, Inc.
Proteus Biomedical
Purdue Pharma, LP
Qiagen Sciences
Questcor Pharmaceuticals, Inc.
ReGen Biologics, Inc.
Regeneron Pharmaceuticals, Inc.
REMS Program Companies (RPC)
Robodoc Division of Curexo Technology Corp.
Roche (Any division)
RoundTable Healthcare Partners
RTI Biologics, Inc.
Sakura Finetek U.S.A., Inc.
Salient Surgical Technologies, Inc.
Salix Pharmaceuticals, Inc.
sanofi pasteur
Sanofi S.A.
sanofi-aventis U.S.
Schering-Plough Corporation
Scient'X USA, Inc.
Seattle Genetics
Semprus BioSciences*
Seno Medical Instruments Inc.
Sensors for Medicine and Science, Inc.

Shire Pharmaceuticals
Shumsky Therapeutic Pillows
Siemens (Any division)
Sigma-Tau Pharmaceuticals, Inc.
Silere Medical Technology Inc.
Silk Road Medical
Sleep Solutions, Inc.
Smith & Nephew (Any division)
SonoSite
Sorin S.p.A.
Spectrum (Any division)
Spinal Restoration, Inc.
Spiration Inc.
St. Jude Medical, Inc.
STERIS Corporation
Strata LLC
Straumann USA LLC
Stryker (Any division)
Sunovion Pharmaceuticals, Inc.
superDimension, Inc.
Symbios Medical Products, LLC
SyntheMed, Inc.
Sysmex America, Inc.
T2 Biosystems, Inc.
Taiho Pharmaceutical
Takeda Pharmaceuticals (Any division)
Teleflex Medical
Terumo (Any division)
Tesaro
Teva Pharmaceutical Industries
The Innovation Factory
The P.F. Laboratories, Inc.
Theranostics Health
Therapeutic Pillows
TherOx, Inc.
Thoratec Corporation
Tomophase Corporation
Toray Industries (America), Inc.
Tornier, Inc.

Toshiba (Any division)
TransS1, Inc.
Transoma Medical, Inc.
TriReme Medical Inc.
TyRx Pharma, Inc.
UCB
Uluru Inc.
United Therapeutics
Urovalve, Inc.
US HIFU, LLC
USCI Japan
Valeant Pharmaceuticals (Any division)
Vapotherm, Inc.
Varian Medical Systems, Inc.
VeraLight, Inc.
Vertex Pharmaceuticals
Viacor, Inc.
VidaCare Corporation
Vidara Therapeutics
ViiV Healthcare
Vilex Inc.
ViroPharma Incorporated
Visionquest Industries Inc.
Vitalcor, Inc.
VitalWear Inc.
VivoMetrics, Inc.
VNUS Medical Technologies, Inc.
W. L. Gore & Associates, Inc.
Walgreens (Any division)
WaveTec Vision Systems, Inc.
Welch Allyn, Inc.
Wound Care Innovations, LLC
Wright Medical Technology, Inc.
Wyeth
Wyeth Pharmaceuticals
Wyeth Research
Xceed Molecular
Zimmer (Any division)
Zoll (Any division)

I: Pharmacy Recertification Requirements by Audience

Pharmacists
BPS: Ambulatory Care Pharmacy
BPS: Cardiology Pharmacy
BPS: Compounded Sterile Preparations Pharmacy
BPS: Critical Care Pharmacy
BPS: Emergency Medicine Pharmacy
BPS: Geriatric Pharmacy
BPS: Infectious Diseases Pharmacy
BPS: Nuclear Pharmacy
BPS: Nutrition Support Pharmacy
BPS: Oncology Pharmacy
BPS: Pediatric Pharmacy
BPS: Pharmacotherapy
BPS: Psychiatric Pharmacy
BPS: Solid Organ Transplantation Pharmacy

Pharmacists Prescriptive Authority
NM BOP: Immunization
NM BOP: Tobacco Cessation
NM BOP: Emergency Contraception
NM BOP: Hormonal Contraception
NM BOP: Naloxone
NM BOP: HIV Post-Exposure Prophylaxis (PEP)

Pharmacy Technicians
PTCB: Certified Pharmacy Technician (CPhT)
PTCB: Certified Compounded Sterile Preparation Technician (CSPT)
PTCB: Advanced Certified Pharmacy Technician (CPhT-Adv)
NM BOP: Immunizations

J: Pharmacy State Regulatory Content Areas

Child Abuse Prevention or Reporting
Collaborative Practice
Contraception
Cultural Competency
Diversity, Equity, Inclusion (including bias)
Human Trafficking
Lesbian, gay, bisexual, transgender and queer or questioning (LGBTQ)
Mental Health Awareness
Nicotine Replacement
Non-Sterile Compounding
Nursing Home Consulting
Pharmacist Prescriptive Authority
Precepting
Sexual Harassment
Sterile Compounding
Suicide Prevention

K: State Content Tagging Content Areas

General Controlled Substance Prescribing/Dispensing- Practices
Identifying and Managing Controlled Substance Misuse and Use Disorder
Pain Management
Controlled Substances (Opioids/Benzodiazepines/Barbiturates)
Palliative Care and End of Life Care
Prescription Drug Monitoring Program

L: List of Error Codes

Code	Description
101	Activity record action was not specified.
102	Activity record action invalid.
103	Add action has duplicate of existing activity ID.
104	Record not found. Update action has unknown activity ID.
105	Record not found. Delete action has unknown activity ID.
106	Activity could not be deleted. Participant records exist for this activity.
107	Activity record is a duplicate for an activity submitted to Board through non-ACCME methods and cannot be reported through PARS.
200	Missing number of AMA credits
202	Missing ACCME Activity ID.
203	Missing Activity title.
204	No specialties included in record.
205	Missing Activity start date.
206	Missing MOC points.
207	Missing Variable MOC points.
208	Missing Patient safety approval status.
209	Missing reporting start date.
210	Missing reporting end date.
211	Missing activity format.
212	Missing providership.
213	Missing provider name.
214	Missing joint provider name.
215	Missing activity end date.
216	Missing Provider Activity ID.
217	Missing content outline elements
218	Missing Medical Knowledge approval status
219	Missing Practice Assessment approval status
220	Missing activity URL
302	ACCME Activity ID not valid.
303	Activity title not valid.
304	Specialty not valid.
305	Activity start date not valid.
306	MOC points not valid.
307	Variable MOC points not valid.
308	Patient safety approval status not valid.
309	Reporting start date not valid.
310	Reporting end date not valid.
311	Activity format not valid.
312	Providership not valid.
313	Provider name not valid.
314	Joint provider name not valid.
315	Activity start date format is invalid. Expected yyyy-mm-ddT:00:00:00
316	Activity end date format is invalid. Expected yyyy-mm-ddT:00:00:00
317	Medical Knowledge approval status not valid.
318	Practice Assessment approval status not valid.
319	MOC points not in increment of 0.25
320	Activity specialty/licensing board registration cannot be removed. Learner completion records exist for {Board acronym} and must be deleted before the activity registration can be removed. Possible additional supplemental message(s): Cannot make an MOC activity draft SequenceNumber is null

Code	Description
321	Activity REMS registration cannot be removed. REMS learner completion records exist for this activity and must be deleted before the REMS registration can be removed.
322	Activity is not pre-approved by ABOS to offer self-assessment examination credit.
451	Invalid User: Access Denied
452	Invalid Reporting Year: Please enter in a valid year. Example: 2015
453	Data could not be read. Please make sure that you are uploading XML data in the correct format.
454	Only one Activity at a time can be submitted thru this service.
455	Error Reading XML Web Service: [Error Message]
456	MEMS Element: entry: [XML Identifier], - Invalid data value/format for [Element Name]: [Data Value]
457	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - Missing required field: [Field Name]
458	MEMS Element: entry: [XML Identifier], Element name: ActivityDescription/lom:lom/general/lom:identifier/lom:catalog/lom:entry - ACCME ActivityID is invalid/does not exist
459	MEMS Element: entry: [XML Identifier], Element name: mem: ActivityDescription/lom:lom/hx:healthcareMetadata/hx:healthcareEducation/hx:activityFormat - Invalid data value for Activity Type: [Activity Type]
460	MEMS Element: entry: [XML Identifier], Element name: mem: ActivityDescription/lom:lom/hx:healthcareMetadata/hx:healthcareEducation/hx:activityFormat - At least one subcategory is required for a Course or Internet Live Course
461	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - Invalid value for Reporting Year: [Data Value]. You cannot add or update activities for [Data Value] because the data for this year has already been attested as complete.
462	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - Invalid value for Reporting Year: [Data Value].
463	MEMS Element: identifier: entry: [XML Identifier], Element name: [Element Name] - Invalid element.
464	MEMS Element: Update Reporting Year from [Existing Reporting Year] to [New Reporting Year] not permitted.
465	MEMS Element: entry: [XML Identifier], Element name: [Element Name]: This activity record is assigned to a reporting year that is not currently available for entry of records.
466	MEMS Element: entry: [XML Identifier], - Failed to add the activity
467	MEMS Element: entry: [XML Identifier], - Failed to update the activity
468	MEMS Element: entry: [XML Identifier], - Invalid data value/format for Credits Offered: [Credits Offered].
469	Activity end date cannot be earlier than activity start date.
470	Based on activity end date, activity cannot be registered for [Board name] MOC.
472	Keyword element(s) not valid for MOCA content outline.
473	MEMS Element: entry: [XML Identifier], Element name: [Element Name] - This activity is already closed and cannot be updated.
474	Internal ID cannot be the Organization ID. Please enter a unique value for this field.
475	Credit Claim date cannot be before the activity end date listed for the activity
476	An activity matching this ID already exists. Existing activities may not use the 'Add' record action.
477	Duplicate Entry. Two or more activity records in this submission have the same ID. Please ensure all activities in this file have unique IDs.
478	Pharmacy sequence number already in use.
479	Invalid data value/format for Commendation Tag:
480	Invalid data value/format for REMS Type:
481	Closed activities may not be edited.
482	Learners may not be reported for activities in the future.
483	This activity cannot be closed. Activities must have all required fields completed and an end date in the past to be closed.

Code	Description
484	Missing default credit type:
485	Invalid template
486	Activity Format cannot be changed when individual learners have been reported
487	Activity credit type cannot be submitted alone
488	Invalid delivery method(s):
489	Invalid count of Keyword element(s): {Count}
490	At least one practice area or specialty is required
491	Invalid practice area or specialty
492	Activity cannot be deleted.
999	General activity record processing error.
9999	Fatal Error: Please contact IT Support.